

Amendments to the Claims:

1. (Currently Amended) A method of deinking printed paper, the method comprising pulping the paper to form an aqueous slurry, adding a deinking additive to the paper, and removing detached ink by flotation, wherein the additive comprises an organo-modified siloxane comprising units of the formula:



in which each R^1 is independently selected from the group consisting of a hydrogen atom, an alkyl, aryl, alkenyl, aralkyl, alkaryl, alkoxy, alkanoyloxy, hydroxyl, ester and ether group;

each Z is independently selected from the group consisting of (i) an alkyl group substituted with a substituent selected from the group consisting of an amine, amide, carboxyl, ester, or epoxy group, and (ii) a group $-R^2-(OC_pH_{2p})_q(OC_rH_{2r})_s-R^3$;

n is an integer greater than 1;

a and b are independently selected from the group consisting of 0, 1, 2 and 3;

R^2 is selected from the group consisting of an alkylene group and a direct bond;

R^3 is selected from the group consisting of R^1 and Z as defined above;

p and r are each independently an integer from 1 to 6;

q and s are independently selected from the group consisting of 0 and an integer such that ~~$1 \leq q + s \leq 400$~~ $1 \leq q + s \leq 400$;

and wherein each molecule of the organo-modified siloxane contains at least one group Z.

2. (Currently Amended) A method according to claim 1 wherein Z is $[[a]]$ group $-R^2-(OC_pH_{2p})_q(OC_rH_{2r})_s-R^3$.

3. (Previously Presented) A method according to claim 2 wherein p is an integer from 2 to 4 inclusive.
4. (Previously Presented) A method according to claim 2 wherein q and s are each independently integers from 10 to 30.
5. (Previously Presented) A method according to claim 4 wherein q and s are each independently integers from 15 to 25.
6. (Previously Presented) A method according to claims 2 wherein p is 2, r is 3, and q and s are both 18.
7. (Previously Presented) A method according to claim 1 wherein R^2 is selected from the group consisting of a methylene, ethylene, propylene, butylene, pentylene and hexylene group.
8. (Previously Presented) A method according to claim 1 wherein R^3 is selected from the group consisting of a hydrogen atom and a hydroxyl group.
9. (Previously Presented) A method according to claim 1 wherein the siloxane is linear.
10. (Previously Presented) A method according to claim 1 wherein the siloxane contains branching.
11. (Currently Amended) A method according to claim 1 wherein Z is $[[a]]$ group - $R^2-(OC_pH_{2p})_q(OC_rH_{2r})_s-R^3$, and R^3 is selected from the group consisting of a hydroxyl and an alkanoyloxy group.

12. (Currently Amended) A method according to claim 1 wherein 2 to 20 mole percent of silicon atoms in the siloxane molecule are substituted by [[a]] group Z.

13. (Currently Amended) A method according to claim 12 wherein 5 to 16 mole percent of silicon atoms in the siloxane molecule are substituted by [[a]] group Z.

14. (Previously Presented) A method according to claim 1 wherein the siloxane has a hydrophilic/lipophilic balance (HLB) in the range of about 5.0 to about 7.3.

15. (Previously Presented) A method according to claim 1 wherein the siloxane has a molecular weight in the range of about 1,000 to about 500,000.

16. (Previously Presented) A method according to claim 15 wherein the siloxane has a molecular weight in the range of about 10,000 to about 100,000.

17. (Previously Presented) A method according to claim 1 wherein the siloxane is a hydroxy-endcapped linear polydimethylsiloxane having an HLB of about 5.9 to about 6.3, in which 10 to 12 mole percent of silicon atoms are substituted by Z groups of the formula

$-R^2-(OC_pH_{2p})_q(OC_rH_{2r})_s-R^3$, in which p is 2, r is 3 and q and s are both 18, R^2 is selected from the group consisting of an alkylene group having from 1 to 6 carbon atoms or a direct bond, and R^3 is selected from the group consisting of a hydrogen atom, a hydroxyl, ester and ether group.

18. (Previously Presented) A method according to claim 1 wherein the additive further comprises one or more components selected from the group consisting of a polydimethylsiloxane, an organic polyether, and a fatty acid.

19. (Currently Amended) A method according to claim 18 wherein the additive further comprises an organic polyether of the formula

$R^4-(OC_pH_{2p})_q(OC_rH_{2r})_s-R^5$ in which R^4 and R^5 are selected from the group consisting of a hydrogen atom, hydroxyl, alkyl and alkoxy groups, p and r are independently an integer from 1 to 6, and q and s are independently selected from the group consisting of 0 and an integer such that $1 \leq q + s \leq 400$ ~~that $1 \leq q + s \leq 400$~~ that $1 \leq q + s \leq 400$.

20. (Previously Presented) A method according to claim 18 wherein the additive further comprises a fatty acid selected from the group consisting of a saturated and unsaturated monobasic aliphatic carboxylic acid.

21. (Previously Presented) A method according to claim 20 wherein the carboxylic acid is selected from the group consisting of lauric, myristic, palmitic, stearic, arachidic, behenic, lignoceric, palmitolic, oleic, linoleic, linolenic; and arachidonic acids.

22. (Previously Presented) A method according to claim 1 wherein the additive is an emulsion.

23. (Original) A method according to claim 22 wherein the additive is a gum based self-emulsifying siloxane.

24. (Previously Presented) A method according to claim 1 wherein the additive is added to the paper in an amount within the range 0.1 to 1 wt% of the paper.

25. (Original) A method according to claim 24 wherein the additive is added to the paper in an amount within the range 0.1 to 0.5 wt% of the paper.

26. (Previously Presented) A method according to claim 1 which is performed at substantially neutral pH.
27. (Previously Presented) A method according to claim 1 wherein the additive is added to the paper at a stage selected from the group consisting of before, during and after pulping.
28. (Previously Presented) A method according to claim 2 wherein r is an integer from 2 to 4 inclusive.
29. (Previously Presented) A method according to claim 2 wherein both p and r are each independently an integer from 2 to 4 inclusive.